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2		US 2006002 6503 A1	20060202	Markup document appearance manager	715/513	Bartosh; David M. et al.	
3		US 2005026 2432 A1	20051124	Systems and methods for providing simultaneous access to documents	1/15/511	Wagner, Timothy A.	
14		US 7043529 B1	20060509	Collaborative development network for widely dispersed users and methods therefor	709/205	Simonoff; Adam J.	

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Interactive Editing Systems: Part II

Norman Meyrowitz, Andries van Dam

September 1982 ACM Computing Surveys (CSUR), Volume 14 Issue 3

Publisher: ACM Press

Full text available: pdf(9.17 MB)

Additional Information: full citation, references, citings, index terms

2 A marking based interface for collaborative writing

Gary Hardock, Gordon Kurtenbach, William Buxton

December 1993 Proceedings of the 6th annual ACM symposium on User interface software and technology

Publisher: ACM Press

Full text available: 📆 pdf(755.36 KB) Additional Information: full citation, references, citings, index terms

3 Understanding programs and interfaces: Answering why and why not questions in

user interfaces

Brad A. Myers, David A. Weitzman, Andrew J. Ko, Duen H. Chau

April 2006 Proceedings of the SIGCHI conference on Human Factors in computing systems CHI '06

Publisher: ACM Press

Additional Information: full citation, abstract, references, index terms

Modern applications such as Microsoft Word have many automatic features and hidden dependencies that are frequently helpful but can be mysterious to both novice and expert users. The ""Crystal"" application framework provides an architecture and interaction techniques that allow programmers to create applications that let the user ask a wide variety of questions about why things did and did not happen, and how to use the related features of the application without using natural language. A user ...

**Keywords**: help, natural programming, questions, why

A comparative study of man-machine interfaces in interactive systems

K. Maeda, Y. Miyake, J. Nievergelt, Y. Saito October 1984 ACM SIGCHI Bulletin, Volume 16 Issue 2

**Publisher: ACM Press** 

Full text available: pdf(1.56 MB)

Additional Information: full citation, abstract, references

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This study compares and assesses the quality of a number of man-machine interfaces in a sample of interactive systems chosen to represent a wide spectrum of different applications, including: text editors, information retrieval, data communication and processing utilities, and programming environments. The purpose of this study is to develop a check-list for comparing and assessing man-machine interfaces, and to illustrate this technique by means of examples. As a consequence of this approach we ...

### Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

### 6 Special issue: Al in engineering

D. Sriram, R. Joobbani

April 1985 ACM SIGART Bulletin, Issue 92

Publisher: ACM Press

Full text available: pdf(8.79 MB) Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

## Level II technical support in a distributed computing environment

Tim Leehane

September 1996 Proceedings of the 24th annual ACM SIGUCCS conference on User services

**Publisher: ACM Press** 

Full text available: pdf(5.73 MB) Additional Information: full citation, references, index terms

# "Let's see your search-tool!"—collaborative use of tailored artifacts in groupware

Volker Wulf

9

November 1999 Proceedings of the international ACM SIGGROUP conference on Supporting group work

**Publisher: ACM Press** 

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.99 MB) terms

Groupware applications should be tailorable to fit the requirements of dynamically evolving and differentiated fields of application. To encourage individual and collaborative tailoring activities, applications should be tailorable on different levels of complexity. A search tool has been developed which offers different levels of tailoring complexity by means of hierarchically organized component languages. Users can create alternative search tools and compound components by themselves. Se ...

**Keywords**: annotation, exploration, groupware, learning, tailorability

Document Formatting Systems: Survey, Concepts, and Issues

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Richard Furuta, Jeffrey Scofield, Alan Shaw

September 1982 ACM Computing Surveys (CSUR), Volume 14 Issue 3

Publisher: ACM Press

Full text available: pdf(5.36 MB)

Additional Information: full citation, references, citings, index terms

10 A framework for shared applications with a replicated architecture

Thomas Berlage, Andreas Genau

December 1993 Proceedings of the 6th annual ACM symposium on User interface software and technology

**Publisher: ACM Press** 

Full text available: pdf(984.32 KB) Additional Information: full citation, references, citings, index terms

**Keywords**: application framework, command objects, computer-supported cooperative work, history tree, selective undo and redo, user interface management system

11 Optimizing encoding: Optimization of html automatically generated by wysiwyg

programs

Jacqueline Spiesser, Les Kitchen

May 2004 Proceedings of the 13th international conference on World Wide Web

Publisher: ACM Press

Full text available: pdf(129.59 KB) Additional Information: full citation, abstract, references, index terms

Automatically generated HTML, as produced by WYSIWYG programs, typically contains much repetitive and unnecessary markup. Thispaper identifies aspects of such HTML that may be altered whileleaving a semantically equivalent document, and proposes techniques to achieve optimizing modifications. These techniques include attribute re-arrangement via dynamic programming, the use of style classes, and dead-coderemoval. These techniques produce documents as small as 33% of original size. The size decre ...

Keywords: dynamic programming, haskell, html optimization, wysiwyg

12 Anatomy of a native XML base management system

T. Fiebig, S. Helmer, C.-C. Kanne, G. Moerkotte, J. Neumann, R. Schiele, T. Westmann
December 2002 The VLDB Journal — The International Journal on Very Large Data
Bases, Volume 11 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(300.97 KB) Additional Information: full citation, abstract, citings, index terms

Several alternatives to manage large XML document collections exist, ranging from file systems over relational or other database systems to specifically tailored XML base management systems. In this paper we give a tour of Natix, a database management system designed from scratch for storing and processing XML data. Contrary to the common belief that management of XML data is just another application for traditional databases like relational systems, we illustrate how almost every component in a ...

Keywords: Database, XML

13 A Requirements to Test Tracking System (RTTS)

Edward R. Rang, Karen H. Thelen

October 1985 Proceedings of the 1985 ACM annual conference on The range of computing: mid-80's perspective: mid-80's perspective

**Publisher: ACM Press** 

Full text available: pdf(377.31 KB) Additional Information: full citation, references, index terms

14 The case of the killer robot (part 2)

Richard G. Epstein
December 1994 ACM SIGCAS Computers and Society, Volume 24 Issue 4

Publisher: ACM Press

Full text available: pdf(2.22 MB)

Additional Information: full citation, citings, index terms

15 Document detection: TIPSTER phase I final report

Bill Caid, Stephen Gallant, Joel Carleton, David Sudbeck

September 1993 Proceedings of a workshop on held at Fredericksburg, Virginia: September 19-23, 1993

Publisher: Association for Computational Linguistics

Additional Information: full citation, abstract Full text available: pdf(1.84 MB)

During Phase I of the TIPSTER program, HNC developed a unique approach to machine learning of similarity of meaning. This approach, embodied in a system called "MatchPlus", exploits this learned similarity of meaning for concept-based text retrieval, routing and visualization of textual information. MatchPlus uses an information representation scheme called "context vectors" to encode similarity of usage. Key attributes of the context vector approach are as follows: • Words, documents, and q ...

16 Working out usability: Linking surface error characteristics to root problems in user-

based evaluation studies

Mark Springett

May 1998 Proceedings of the working conference on Advanced visual interfaces

Publisher: ACM Press

Additional Information: full citation, abstract, references Full text available: pdf(1.49 MB)

This paper reports a study of novice subjects using Word 5.1. for the Macintosh. In particular, user errors were analysed. The intention was to investigate the difficulty, that evaluators have in determining root error causes from surface characteristics. Errors made by subjects were examined and classified in phenotype and genotype categories[3]. An error was classified in a genotype category if it was felt that system had failed to support that particular user mental action. The utility of the ...

Keywords: action cycle, error studies, phenotypes/genotypes

17 Using metalevel techniques in a flexible toolkit for CSCW applications

Paul Dourish

June 1998 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 5 Issue 2

**Publisher: ACM Press** 

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(292.97 KB) terms

Ideally, software toolkits for collaborative applications should provide generic, reusable components, applicable in a wide range of circumstances, which software developers can assemble to produce new applications. However, the nature of CSCW applications and the mechanics of group interaction present a problem. Group interactions are significantly constrained by the structure of the underlying infrastructure, below the level at which toolkits typically offer control. This article describe ...

Keywords: consistency control, consistency guarantees, data distribution, divergency, metalevel programming, open implementation, software architecture

A tour through cedar



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Warren Teitelman

March 1984 Proceedings of the 7th international conference on Software engineering

Publisher: IEEE Press

Additional Information: full citation, references, citings, index terms

19 Repeat and predict—two keys to efficient text editing

Toshiyuki Masui, Ken Nakayama

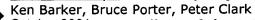
April 1994 Proceedings of the SIGCHI conference on Human factors in computing systems: celebrating interdependence

**Publisher: ACM Press** 

Full text available: pdf(733.24 KB) Additional Information: full citation, references, citings, index terms

Keywords: PBD, PBE, dynamic macro creation, keyboard macro, predictive interface, programming by demonstration, programming by example, text editing

20 Technical Papers: A library of generic concepts for composing knowledge bases



October 2001 Proceedings of the 1st international conference on Knowledge capture K-CAP '01

**Publisher: ACM Press** 

Full text available: pdf(190.88 KB)

Additional Information: full citation, abstract, references, citings, index terms

Building a knowledge base for a given domain traditionally involves a subject matter expert and a knowledge engineer. One of the goals of our research is to eliminate the knowledge engineer. There are at least two ways to achieve this goal: train domain experts to write axioms (i.e., turn them into knowledge engineers) or create tools that allow users to build knowledge bases without having to write axioms. Our strategy is to create tools that allow users to build knowledge bases through ...

Keywords: knowledge engineering, knowledge reuse, ontologies

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1 Incremental document formatting

Pehong Chen, Michael A. Harrison, Ikuo Minakata

January 2000 Proceedings of the ACM conference on Document processing systems

**Publisher: ACM Press** 

Full text available: pdf(631.10 KB) Additional Information: full citation, references, index terms

<sup>2</sup> Interactive Editing Systems: Part II



Norman Meyrowitz, Andries van Dam

September 1982 ACM Computing Surveys (CSUR), Volume 14 Issue 3

Publisher: ACM Press

Full text available: pdf(9.17 MB)

Additional Information: full citation, references, citings, index terms

3 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available: pdf(4.21 MB)

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D. Sriram, R. Joobbani

April 1985 ACM SIGART Bulletin, Issue 92

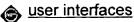
**Publisher: ACM Press** 

Full text available: pdf(8.79 MB)

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5 Understanding programs and interfaces: Answering why and why not questions in



Brad A. Myers, David A. Weitzman, Andrew J. Ko, Duen H. Chau

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Keywords: help, natural programming, questions, why

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Publisher: ACM Press

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Warren Teitelman

March 1984 Proceedings of the 7th international conference on Software engineering

Publisher: IEEE Press

Full text available: pdf(2.08 MB) Additional Information: full citation, references, citings, index terms

8 A framework for shared applications with a replicated architecture

Thomas Berlage, Andreas Genau

December 1993 Proceedings of the 6th annual ACM symposium on User interface software and technology

Publisher: ACM Press

Full text available: pdf(984.32 KB) Additional Information: full citation, references, citings, index terms

**Keywords**: application framework, command objects, computer-supported cooperative work, history tree, selective undo and redo, user interface management system

<sup>9</sup> "Let's see your search-tool!"—collaborative use of tailored artifacts in groupware

Volker Wulf

November 1999 Proceedings of the international ACM SIGGROUP conference on Supporting group work

**Publisher: ACM Press** 

Full text available: pdf(1.99 MB)

Additional Information: full citation, abstract, references, citings, index terms

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Keywords: annotation, exploration, groupware, learning, tailorability

#### 10 Anatomy of a native XML base management system

T. Fiebig, S. Helmer, C.-C. Kanne, G. Moerkotte, J. Neumann, R. Schiele, T. Westmann December 2002 The VLDB Journal — The International Journal on Very Large Data Bases. Volume 11 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(300.97 KB) Additional Information: full citation, abstract, citings, index terms

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October 1985 Proceedings of the 1985 ACM annual conference on The range of computing: mid-80's perspective: mid-80's perspective

Publisher: ACM Press

Full text available: pdf(377.31 KB) Additional Information: full citation, references, index terms

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Bill Caid, Stephen Gallant, Joel Carleton, David Sudbeck

September 1993 Proceedings of a workshop on held at Fredericksburg, Virginia: September 19-23, 1993

Publisher: Association for Computational Linguistics

Additional Information: full citation, abstract Full text available: 📆 pdf(1.84 MB)

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## 13 Technical reports

SIGACT News Staff
January 1980 ACM SIGACT News, Volume 12 Issue 1

**Publisher: ACM Press** 

Full text available: pdf(5.28 MB) Additional Information: full citation

## 14 Multi-sensory browser and editor model

James W. Ryder, Kanad Ghose

February 1999 Proceedings of the 1999 ACM symposium on Applied computing

Publisher: ACM Press

Full text available: pdf(803.12 KB) Additional Information: full citation, references, citings, index terms

Keywords: computer accessibility, computer human interface, multi-sensory user environments, multimedia, speech-enabled application model

15 Intermedia: The architecture and construction of an object-oriented hypemedia



system and applications framework

Norman Meyrowitz

June 1986 ACM SIGPLAN Notices, Conference proceedings on Object-oriented programming systems, languages and applications OOPLSA '86, Volume 21

**Publisher: ACM Press** 

Full text available: pdf(1.96 MB)

Additional Information: full citation, abstract, references, citings, index terms

This article presents a case study of the development of the Intermedia system, a large, object-oriented hypermedia system and associated applications development framework providing sophisticated document linkages. First it presents the educational and technological objectives underlying the project. Subsequent sections capture the process of developing the Intermedia product and detail its architecture and construction, concentrating on the areas in which object-oriented technology has ha ...

16 Using long runs as predictors of semantic coherence in a partial document retrieval system



Hyopil Shin, Jerrold F. Stach

April 2000 NAACL-ANLP 2000 Workshop on Syntactic and semantic complexity in natural language processing systems - Volume 1

Publisher: Association for Computational Linguistics

Full text available: 📆 pdf(538.58 KB) Additional Information: full citation, abstract, references

We propose a method for dealing with semantic complexities occurring in information retrieval systems on the basis of linguistic observations. Our method follows from an analysis indicating that long runs of content words appear in a stopped document cluster, and our observation that these long runs predominately originate from the prepositional phrase and subject complement positions and as such, may be useful predictors of semantic coherence. From this linguistic basis, we test three statistic ...

17 Multimedia document presentation, information extraction, and document formation in





MINOS: a model and a system

S. Christodoulakis, M. Theodoridou, F. Ho, M. Papa, A. Pathria

December 1986 ACM Transactions on Information Systems (TOIS), Volume 4 Issue 4

Publisher: ACM Press

Full text available: pdf(3.16 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

MINOS is an object-oriented multimedia information system that provides integrated facilities for creating and managing complex multimedia objects. In this paper the model for multimedia documents supported by MINOS and its implementation is described. Described in particular are functions provided in MINOS that exploit the capabilities of a modern workstation equipped with image and voice input-output devices to accomplish an active multimedia document presentation and browsing within docu ...

18 Multi-level transaction management for complex objects: implementation,



Gerhard Weikum, Christof Hasse

October 1993 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 2 Issue 4

Publisher: Springer-Verlag New York, Inc.

Additional Information: full citation, abstract, references, citings Full text available: pdf(2.83 MB)

Multi-level transactions are a variant of open-nested transactions in which the subtransactions correspond to operations at different levels of a layered system Results (page 1): redo <paragraph> test <paragraph> documen... Page 5 of 5

architecture. They allow the exploitation of semantics of high-level operations to increase concurrency. As a consequence, undoing a transaction requires compensation of completed subtransactions. In addition, multi-level recovery methods must take into consideration that high-level operations are not necessarily atomic if multiple pages ...

**Keywords**: atomicity, complex objects, inter- and intratransaction parallelism, multi-level transactions, performance, persistence, recovery

19 Transparency and awareness in a real-time groupware system

Michel Beaudouin-Lafon, Alain Karsenty

December 1992 Proceedings of the 5th annual ACM symposium on User interface software and technology

Publisher: ACM Press

Full text available: pdf(1.12 MB)

 $Additional\ Information: \underline{full\ citation},\ \underline{abstract},\ \underline{references},\ \underline{citings},\ \underline{index}$ 

terms

This article explores real-time groupware systems from the perspective of both the users and the designer. This exploration is carried out through the description of GroupDesign, a real-time multi-user drawing tool that we have developed. From the perspective of the users, we present a number of functionalities that we feel necessary in any real-time groupware system: Graphic & Audio Echo, Localization, Identification, Age, and History. From the perspective of the designer, we demonstra ...

20 Designing object-oriented synchronous groupware with COAST

Christian Schuckmann, Lutz Kirchner, Jan Schümmer, Jörg M. Haake

November 1996 Proceedings of the 1996 ACM conference on Computer supported cooperative work

**Publisher: ACM Press** 

Full text available: pdf(1.01 MB)

Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

**Keywords**: concurrency control, display updating, groupware, replicated objects, sessions, synchronous collaboration, toolkit

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